CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.02/RS/WMM/Gradation/2014-15

15.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Sathish,** Contractor, Bangalore.

Name of Work : Providing Pot hole filling in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/Y/WO/07/2014-15 Dated: 13.11.2014

Date of Testing : 15.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	995	995	4.0	96.0	95-100
22.4	5235	6230	24.9	75.1	60-80
11.2	5240	11470	45.9	54.1	40-60
4.75	4210	15680	62.7	37.3	25-40
2.36	3960	19640	78.6	21.4	15-30
0.600	2585	22225	88.9	11.1	8-22
0.075	2490	24715	98.9	1.1	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
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4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No: CTCE/BBMP/W.No.02/RS/BC/Bitumen/2014-15 17.11.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

As per IS2386 and IRC:SP:11-1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Mr. R. Sathish, Contractor, Bangalore.
NAME OF THE WORK	Providing Pot hole filling in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/Y/WO/07/2014-15 Dated: 13.11.2014
SAMPLE I/D	Pot hole filling in Ward No.02.
DATE OF TESTING	17.11.2014

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	475	474
3. Weight of Asphalt and Mineral matter Extracted, g	25	26
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	25	26
7. Bitumen content in %	5.00	5.20
8. Average	5.10	

GRADATION AFTER EXTRACTION

TABLE - 1

SIEVE SIZE	Percent Passing, %		JOBMIX
mm	Sample 1	Sample 2	Gradation
19	100.00	100.00	100
13.2	90.25	89.63	79-100
9.5	78.21	79.35	70-88
4.75	64.52	69.36	53-71
2.36	52.14	50.85	42-58
1.18	39.64	40.25	34-48
0.6	31.24	33.68	26-38
0.3	25.12	26.35	18-28
0.15	17.20	18.96	12-20
0.075	6.85	7.23	4-10

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